|   | Index of Claims                                  |          |          |           |          |         |            |           |          |            |          |                |          |          | Application No. |            |          |           |          |             |           |           |          |                 | A          | Applicant(s)    |                     |                     |          |          |           |           |         |     |   |
|---|--|----------|----------|-----------|----------|---------|------------|-----------|----------|------------|----------|----------------|----------|----------|-----------------|------------|----------|-----------|----------|-------------|-----------|-----------|----------|-----------------|------------|-----------------|---------------------|---------------------|----------|----------|-----------|-----------|---------|-----|---|
| • |  |          |          |           |          |         |            |           |          |            |          |                |          |          | 10/693,163      |            |          |           |          |             |           |           |          |                 |            | ESCHBACH ET AL. |                     |                     |          |          |           |           |         |     |   |
|   |  |          |          |           |          |         |            |           |          |            |          |                |          |          | Examiner        |            |          |           |          |             |           |           |          |                 |            | Art Unit        |                     |                     |          |          |           |           |         |     |   |
|   |  |          |          |           |          |         |            |           |          |            |          |                | -        |          |                 | Sam Rimell |          |           |          |             |           |           |          |                 |            |                 | 2165                |                     |          |          |           |           |         |     |   |
|   | / Rejected (Through numeral                      |          |          |           |          |         |            |           |          |            |          |                |          |          |                 | $\neg$     | Г        | 1         |          |             |           |           |          |                 |            |                 |                     |                     |          |          |           |           |         |     |   |
|   | √ Rejected                                       |          |          |           |          |         |            | Cancelled |          |            |          |                |          | 1        | N N             |            |          |           |          | Non-Elected |           |           |          |                 | A          |                 | Appeal              |                     |          |          |           |           |         |     |   |
|   |  |          | =        | Allowed   |          |         |            | . 💺       |          | Restricted |          |                | i<br>    |          |                 | l Interfer |          |           | en       | nce         |           | 0         | Objected |                 |            | :               |                     |                     |          |          |           |           |         |     |   |
|   | Cla  | im       | 1        |           |          | te      | e<br>I I I |           |          |            | Claim    |                |          |          | Da              |            |          | ite       |          |             |           |           | Claim    |                 |            |                 | Date                |                     |          |          |           |           | ]       |     |   |
|   | Final  | ina,     | 13       |           |          |         |            |           |          |            | -        | <u>.</u>       | inal     |          |                 |            |          |           |          |             |           |           |          | ā               | inal       |                 |                     |                     |          |          |           |           |         |     |   |
|   | 茝  | Original | 1413/54  |           |          |         |            | -         |          |            | i        | E L            | Original |          |                 |            |          |           |          |             |           |           |          | Final           | Original   |                 |                     |                     |          |          |           |           |         | ·   |   |
| • |  | W        |          |           | 1        | $\perp$ | $\pm$      | 士         |          | H          |          |                | 51       | Н        |                 |            |          | $\dashv$  | 1        | 1           | 1         |           |          |                 | 101        | -               | H                   | +                   | +        | +        | +         | +         | +       | 1   |   |
|   | <u> </u>   | 2        | 1        | -         | $\perp$  | $\mp$   | $\bot$     | $\vdash$  | L        |            | F        | $\exists$      | 52       |          | $\Box$          | $\dashv$   | $\dashv$ | 4         | $\dashv$ | 4           | 4         | $\dashv$  |          |                 | 102        |                 |                     | 4                   | $\Box$   | 7        | 1         | 1         | T       | 1   |   |
|   | ┢  | 4        | 7        |           | +        | +       | +          | ╁         | $\vdash$ | Н          | $\vdash$ | $\dashv$       | 53<br>54 | Н        | $\dashv$        | $\dashv$   | -        | +         | +        | ┪           | $\dashv$  | $\dashv$  |          | $\vdash$        | 103        |                 | $\vdash$            | $\dashv$            | +        | +        | +         | +         | ╁       | 4   |   |
|   |  | 5        | Z        |           | 1        | 1       | 1          |           |          |            |          | $\Box$         | 55       |          |                 | コ          |          | 7         | $\dashv$ | コ           | $\exists$ | コ         |          |                 | 105        |                 | $\Box$              | $\rightrightarrows$ | 1        | #        | 1         | 1         | 土       | 1   |   |
|   | _  | 6        | 4        | $\prec$   | +        | +       | +          | +         | $\vdash$ | Н          | $\vdash$ | $\dashv$       | 56<br>57 | Н        | $\dashv$        | $\dashv$   | $\dashv$ | +         | $\dashv$ | $\dashv$    | -         | ᅱ         |          | $\vdash$        | 106<br>107 |                 | $\dashv$            | $\dashv$            | +        | 4        | +         | +         | ╀       | 4   |   |
|   |  | 8        |          |           |          |         | 土          |           |          | 口          |          |                | 58       |          |                 |            |          |           |          |             |           | ╛         | ı        |                 | 108        |                 |                     | $\exists$           | 1        | $\perp$  | +         | $\dagger$ | ╅       | 1   |   |
|   |  | 9<br>10  | 1        |           | $\perp$  | $\perp$ | $\bot$     | -         |          | П          | _        |                | 59       | П        |                 |            |          | 4         | 1        | $\Box$      |           | $\exists$ |          |                 | 109        |                 |                     | $\Box$              | I        | Ţ        | I         | Ţ         |         | 1   |   |
|   | $\vdash$   | 11       |          | $\exists$ | ╁        | +       | ╁          | ╁         | ┝        | Н          | -        |                | 60<br>61 | Н        |                 |            | +        | $\dashv$  | +        | +           | -         | $\dashv$  |          |                 | 110        | Н               | $\vdash$            | $\dashv$            | +        | +        | +         | +         | ╁       | -   |   |
|   |  | 12       | 1        |           |          |         | 土          | 工         |          |            |          |                | 62       |          |                 |            |          | $\exists$ | 1        |             |           |           | , :      |                 | 112        |                 |                     | 1                   | +        | 十        | $\dagger$ | +         | +       | 1   |   |
|   | <u> </u>   | 13<br>14 | V        | $\Box$    | $\dashv$ | $\perp$ | $\perp$    | ╄.        | _        | Н          | -        | _              | 63       | П        |                 | $\dashv$   | _        | $\dashv$  | 4        | $\dashv$    |           | _         |          |                 | 113        |                 |                     | $\dashv$            | 1        | $\Box$   | 1         | I         |         |     |   |
|   | -  | 15       |          | $\dashv$  | $\dashv$ | +       | ╁          | ╁╌        | ┞        | Н          | $\vdash$ | $\dashv$       | 64<br>65 | H        | $\vdash$        | -          | $\dashv$ | +         | ┪        | ┥           | $\dashv$  | $\dashv$  |          | $\vdash$        | 114<br>115 | H               | $\vdash$            | -                   | +        | +        | +         | +         | +-      | -   |   |
|   |  | 16       | 1        |           | $\perp$  | 士       | 上          |           |          | П          |          |                | 66       |          |                 |            |          | $\top$    | 1        | 7           |           |           |          |                 | 116        |                 |                     | 十                   | 1        | $\top$   | +         | +         | +       | 1   |   |
|   | <u> </u>   | 17       |          | Ц         | $\dashv$ | 4       | $\bot$     | $\perp$   | _        | Ш          | $\perp$  | _              | 67       |          |                 | 4          | _        | 4         | $\perp$  |             |           | 4         |          |                 | 117        |                 |                     | $\Box$              | $\Box$   | $\Box$   | Ţ         | Ţ         | T       | ]   |   |
|   | $\vdash$   | 19       |          | $\dashv$  | +        | ╁       | ╁          | ┿         | $\vdash$ | Н          | $\vdash$ | $\dot{\dashv}$ | 68<br>69 | Н        | $\vdash$        | $\dashv$   | +        | +         | $\dashv$ | +           | $\dashv$  | $\dashv$  |          | $\vdash$        | 118<br>119 | $\vdash$        | $\vdash$            | $\dashv$            | $\dashv$ | -        | +         | +         | ╫       | -   |   |
| • |  | 20       |          |           |          | 土       |            | 上         |          |            |          |                | 70       |          |                 |            |          | 1         | 1        | 1           |           | ╛         |          |                 | 120        |                 |                     | 士                   | 1        | $\top$   | $\top$    | +         |         | 1   |   |
|   |  | 21<br>22 | $\vdash$ |           | +        | +       | +          | +         | -        | Н          | $\vdash$ | _              | 71<br>72 | Н        | $\dashv$        | 4          | 4        | 4         | $\dashv$ | 4           | 4         | $\dashv$  |          |                 | 121        |                 |                     | 4                   | $\dashv$ | $\perp$  | Ţ         | Ţ         | $\perp$ | ]   |   |
|   | $\vdash$   | 23       | $\vdash$ | H         | +        | ╁       | ╁          | +         | ┢        | Н          | $\vdash$ | -              | 73       |          | -               | -          | -        | +         | $\dashv$ | $\dashv$    | -         | -         |          |                 | 122<br>123 | H               |                     | $\dashv$            | +        | +        | +         | +         | ╫       | -   |   |
|   |  | 24       |          |           |          |         |            |           |          |            |          |                | 74       |          |                 |            |          | 1         | コ        |             |           | $\exists$ |          |                 | 124        |                 |                     |                     |          | 土        | 土         | 土         | 土       | 1   |   |
|   |  | 25<br>26 |          | $\vdash$  | $\dashv$ | +       | +          | +         | ┡        | Н          | $\vdash$ | 4              | 75<br>76 | $\vdash$ | $\dashv$        | -          | 4        | -         | 4        | 4           | 4         | 4         |          |                 | 125        | _               | -                   | 4                   | 4        | $\perp$  | $\perp$   | 1         | ļ       | ]   |   |
|   | <del> </del>                                     | 27       |          | $\vdash$  | +        | 十       | ╁          | +-        | Н        | Н          | ┢        | $\dashv$       | 77       | H        | $\vdash$        | ┪          | $\dashv$ | $\dashv$  | $\dashv$ | +           | $\dashv$  | ᅥ         |          |                 | 126<br>127 | $\vdash$        | H                   | $\dashv$            | +        | +        | +         | +         | +       | ┥ . |   |
|   |  | 28       |          |           |          | 土       |            |           |          | 口          |          |                | 78       |          |                 |            |          |           |          |             |           |           |          |                 | 128        |                 |                     |                     | 1        | 士        | $\perp$   | 1         | 士       | 1   |   |
|   | <u> </u>   | 29<br>30 | H        | $\square$ | +        | +       | +          | +         | -        | Н          | $\vdash$ | 4              | 79<br>80 |          | -               | 4          | 4        |           | -        | 4           | 4         | $\dashv$  |          |                 | 129        | <u> </u>        |                     | -                   | 4        | $\perp$  | $\perp$   | 1         | $\perp$ | ]   |   |
|   | <del>                                     </del> | 31       | H        | $\vdash$  | +        | +       | +          | ╁         | ╁        | Н          | ┢        | $\dashv$       | 81       | H        | $\dashv$        | -          | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$    | +         | $\dashv$  |          |                 | 130<br>131 | -               | $\vdash$            | $\dashv$            | +        | +        | +         | +         | +       | -   |   |
|   |  | 32       |          |           |          |         |            | I         |          |            |          |                | 82       |          |                 |            |          |           |          | 1           | 1         | ┪         |          |                 | 132        |                 |                     | 寸                   | +        | 1        | +         | †         | 十       | 1   |   |
|   |  | 33       |          |           | 4        | ┸       | 1          |           | L        | П          |          |                | 83       |          |                 | $\Box$     | $\Box$   |           | $\Box$   | $\Box$      |           |           |          |                 | 133        |                 |                     |                     | $\Box$   | $\Box$   | I         | I         |         | ]   |   |
|   |  | 34<br>35 |          | Н         | +        | - -     | ╫          | +         | H        | Н          | -        | $\dashv$       | 84<br>85 | $\vdash$ | $\dashv$        | -          | +        | +         | $\dashv$ | +           | 4         | $\dashv$  |          | $\vdash$        | 134<br>135 | H               | $\vdash$            | -+                  | +        | $\dashv$ | +         | +         | ╂       | 4   |   |
|   |  | 36       |          |           | +        | $\top$  | $\top$     | 1         |          | П          | $\vdash$ | $\dashv$       | 86       | Н        |                 | 一          | 7        | 7         | 1        | $\dashv$    | 1         | ᅱ         |          |                 | 136        | Н               | $\vdash$            | 十                   | +        | 十        | +         | ╫         | ╁       | -   |   |
|   |  | 37       |          |           |          | $\perp$ | T          | I         |          |            |          |                | 87       |          |                 | $\Box$     | $\Box$   | $\Box$    | _        | $\Box$      |           | $\Box$    |          |                 | 137        |                 |                     |                     | 1        |          | 1         | I         | 工       | ]   |   |
|   | <u> </u>   | 38<br>39 | -        | H         | $\dashv$ | +       | +          | ╀         | ⊢        | Н          | H        |                | 88<br>89 |          | Н               | $\dashv$   | -        | +         | 4        | 4           | -         | $\dashv$  |          |                 | 138        | <u> </u>        |                     | -                   | 4        | +        | 4         | +         | +       | _   | - |
|   | <del>-</del>                                     | 40       | $\vdash$ | $\vdash$  | $\dashv$ | +       | +          | +         | $\vdash$ | Н          | $\vdash$ | $\dashv$       | 90       | Н        | $\dashv$        | $\dashv$   | ┪        | +         | ┥        | +           | +         |           |          |                 | 139<br>140 | $\vdash$        | Н                   | $\dashv$            | +        | +        | +         | +         | +       | -}  | ĺ |
|   |  | 41       |          |           | $\Box$   | 士       | 工          | T         |          |            |          | ╛              | 91       |          |                 |            | ╛        |           | ╛        | 士           | _         | _         |          |                 | 141        |                 | Ħ                   |                     | _        | _        | _         | _         | _       | 1   |   |
|   | <u> </u>   | 42       |          | Ц         | 4        | 4       | +          | F         | F        | П          | F        | _              | 92       | Ц        | $\Box$          | コ          | 7        | $\exists$ | $\neg$   | 1           | $\Box$    | $\Box$    |          |                 | 142        |                 | $\square$           | $\prod$             | Ţ        | 7        | T         | T         | Ţ       | ]   |   |
|   | $\vdash$   | 44       | $\vdash$ | H         | +        | ┿       | +          | +         | $\vdash$ | H          | $\vdash$ | -              | 93<br>94 | H        | $\dashv$        | $\dashv$   | +        | $\dashv$  | +        | $\dashv$    | 4         | $\dashv$  |          | ├─┤             | 143<br>144 | $\vdash$        | $\vdash \vdash$     | $\dashv$            | +        | +        | +         | +         | +       | 4   |   |
|   |  | 45       |          |           | _        | _       | 1          | T         | $\vdash$ | Н          | -        |                | 95       | H        | $\dashv$        | +          | +        | +         | +        | $\dashv$    | +         | $\dashv$  |          | $\vdash \vdash$ | 145        | H               | $\vdash$            | $\dashv$            | $\dashv$ | +        | +         | +         | +       | -   |   |
|   |  | 46       |          |           | $\Box$   | T       | I          | L         |          |            |          | $\Box$         | 96       |          |                 | $\Box$     | コ        | $\Box$    |          | $\sqsupset$ |           |           | Ì        |                 | 146        | $\Box$          |                     |                     |          | 1        | 1         | I         | I       | ]   |   |
|   | <del> </del>                                     | 47<br>48 | Н        | $\dashv$  | +        | +       | ╁          | +         | -        | Н          | $\vdash$ | $\dashv$       | 97<br>98 | Н        | -               | -          | +        | $\dashv$  | +        | +           | -         | $\dashv$  |          |                 | 147<br>148 | $\vdash$        | $\vdash \downarrow$ | $\dashv$            |          | 1        | 4         | +         | +       | -   |   |
|   |  | 49       | Н        | $\exists$ | _        | 士       | $\top$     | $\perp$   |          | Н          | $\vdash$ |                | 99       | $\vdash$ | $\dashv$        | +          | $\dashv$ | +         | +        | +           | +         | $\dashv$  |          |                 | 149        | $\vdash$        | $\vdash$            | +                   | +        | +        | +         | 十         | ┿       | 1   |   |
|   |  | 50       |          |           |          | I       | $\perp$    | $\Gamma$  |          |            |          |                | 100      |          |                 |            | I        | $\exists$ | _        |             |           |           |          |                 | 150        |                 |                     |                     | 士        | 士        | 1         | 1         | 1       | ]   |   |